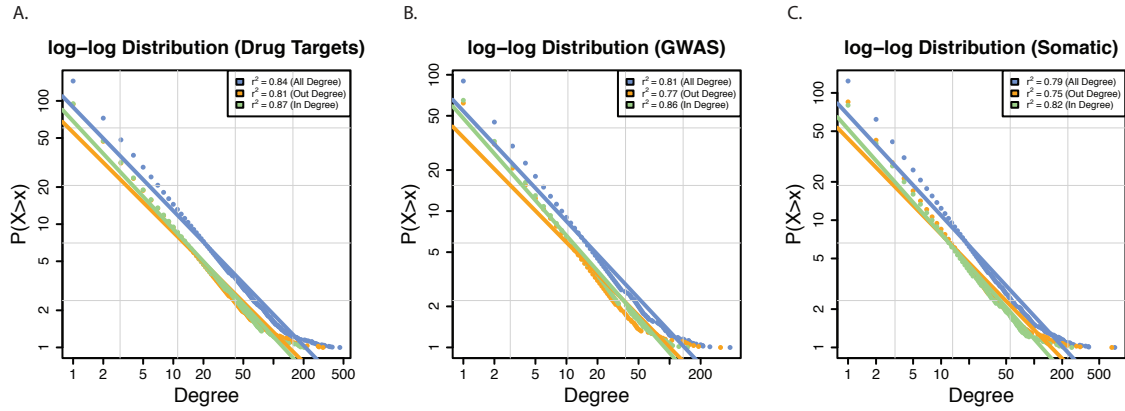


## **Supplementary Information:**

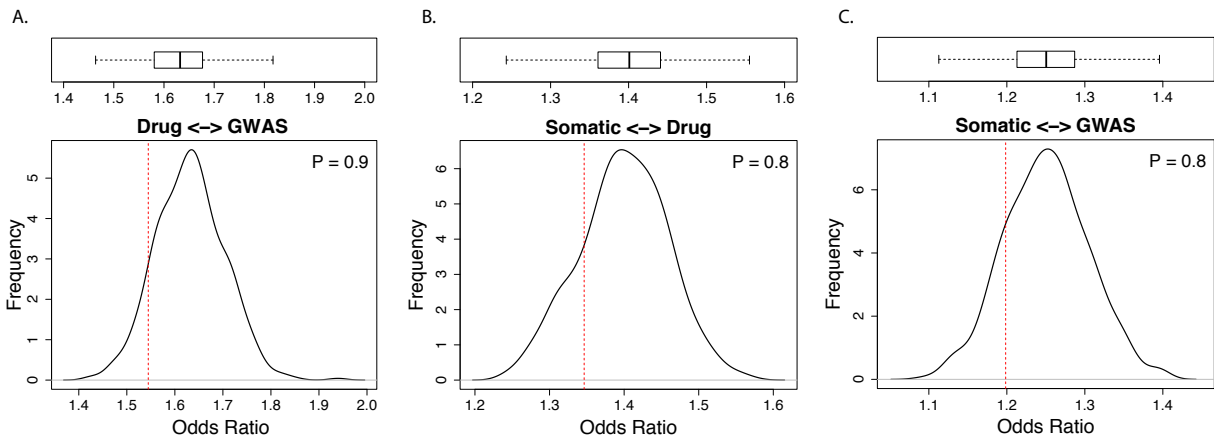
### **Integrative analysis of cancer genes in a functional interactome**

Matthew H. Ung<sup>1,2</sup>, Chun-Chi Liu<sup>3</sup>, Chao Cheng<sup>1,2,4,\*</sup>

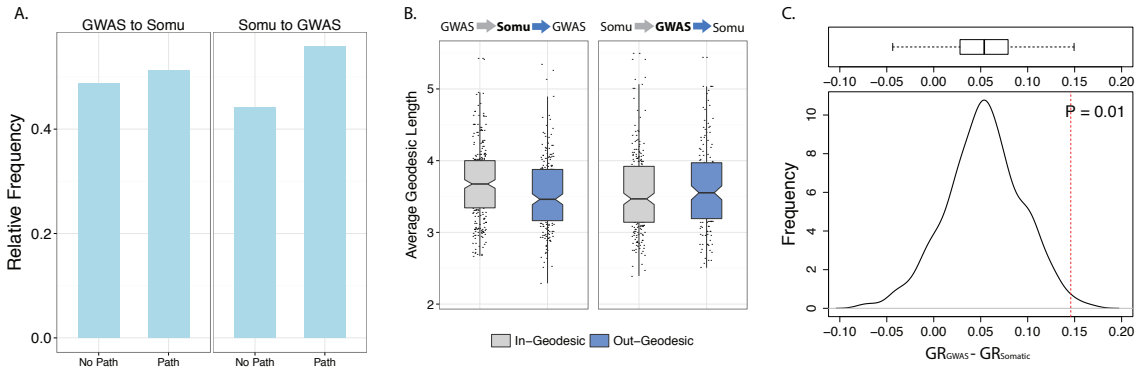


**Figure S1. Degree distribution analysis of node classes (log-cumulative distribution).**

Double log-plot of node degree and cumulative node distribution for a) DTNs, b) GGNs, and c) SMNs.



**Figure S2. Null distribution of odds ratios.** Odds ratios were calculated by comparing out- and in- degree counts between node classes for 500 randomly permuted networks. Red line indicates empirical odds ratio.



**Figure S3. Comparison of geodesic ratios between GGNs and SMNs. a)** Relative reachability between GGNs and SMNs. **b)** Comparison of out- and in- geodesic lengths between GGNs and SMNs. **c)** Null distribution of geodesic ratio differences between GGNs and SMNs.